

9/20/2022

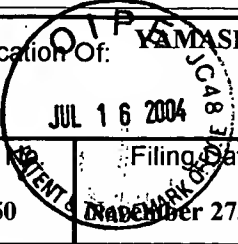

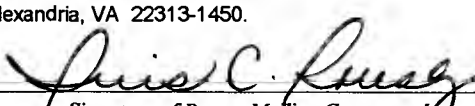
TRANSMITTAL OF FORMAL DRAWINGS				Docket No. HITACHI-0016	
In Re Application Of: YAMASHITA					
					
Application No. 09/944,950	Filing Date December 27, 2001	Confirmation No. 1777	Examiner HWANG, Joon H.	Customer No. 21,302	Group Art Unit 2122
Invention: METHOD AND SYSTEM FOR MULTIDIMENSIONAL DATABASE MANAGEMENT					
<div style="display: flex; justify-content: space-between; align-items: flex-start;"><div style="width: 45%; text-align: center;"><p>Address to:</p><p>Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450</p></div><div style="width: 50%; text-align: center;"><p>RECEIVED</p><p>JUL 19 2004</p><p>Technology Center 2100</p></div></div> <p>Transmitted herewith are:</p> <p style="margin-left: 40px;">22 sheets of formal drawing(s) for this application.</p> <p><input checked="" type="checkbox"/> Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c).</p> <div style="display: flex; justify-content: space-between; margin-top: 100px;"><div style="width: 45%;"><p style="text-align: center;"> <i>Signature</i></p><div style="border: 1px solid black; padding: 5px; margin-top: 10px;"><p>Ken I. Yoshida Reg. No. 37,009 KNOBLE YOSHIDA & DUNLEAVY LLC Eight Penn Center, Suite 1350 1628 John F. Kennedy Blvd. Philadelphia, PA 19103 215-599-0600</p></div></div><div style="width: 50%;"><p>Dated: July 13, 2004</p><div style="border: 1px solid black; padding: 5px; margin-top: 20px;"><p>I certify that this document and attached formal drawings are being deposited on 7/13/04 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p><p style="text-align: center;"> <i>Signature of Person Mailing Correspondence</i></p><p style="text-align: center;">Iris C. Rousey <i>Typed or Printed Name of Person Mailing Correspondence</i></p></div></div></div>					



FIG.1

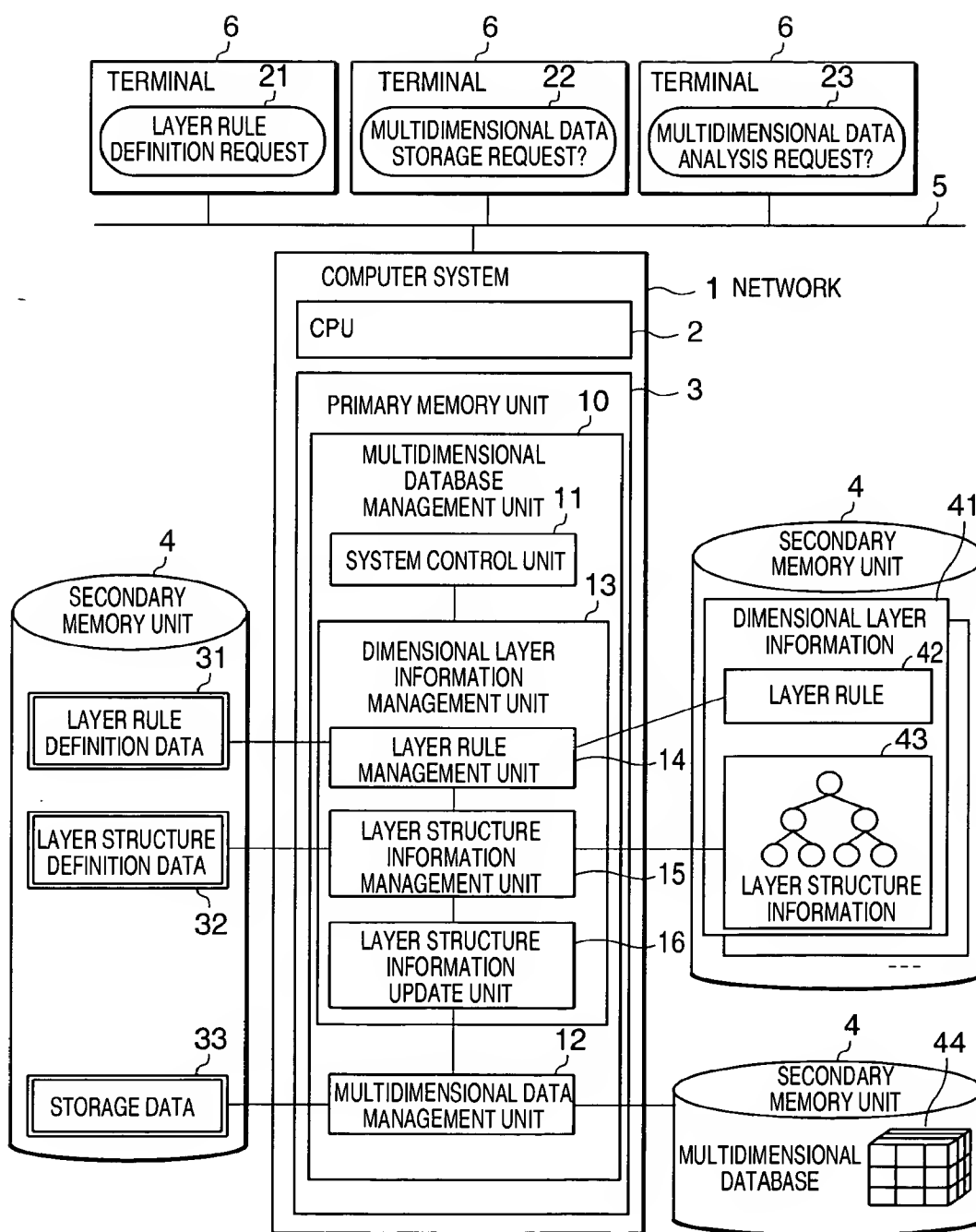




FIG.2

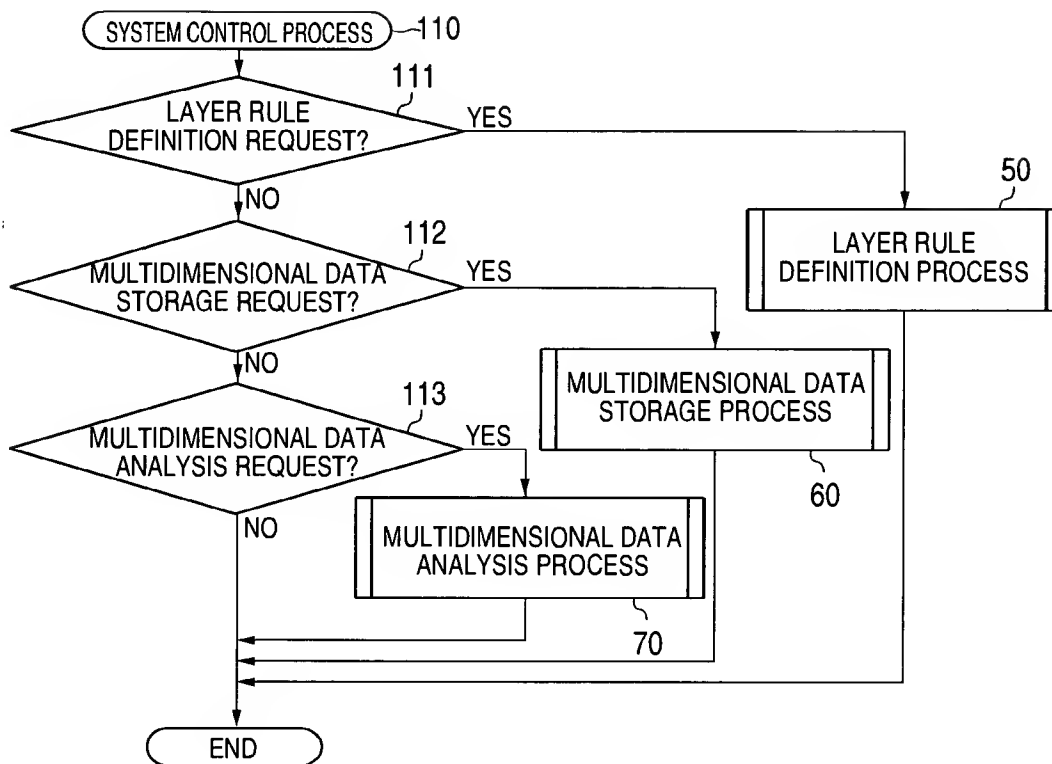


FIG.3

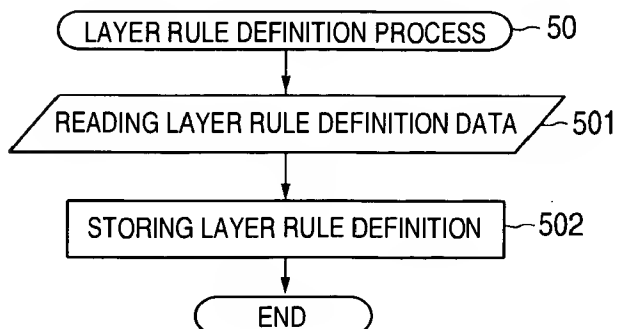




FIG.4

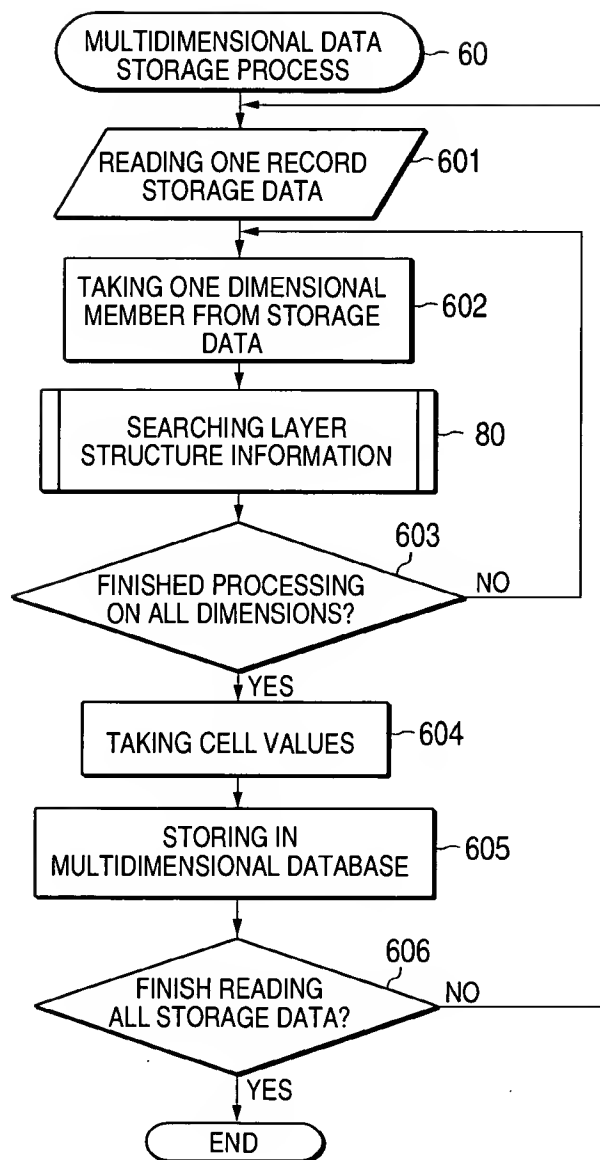




FIG.5

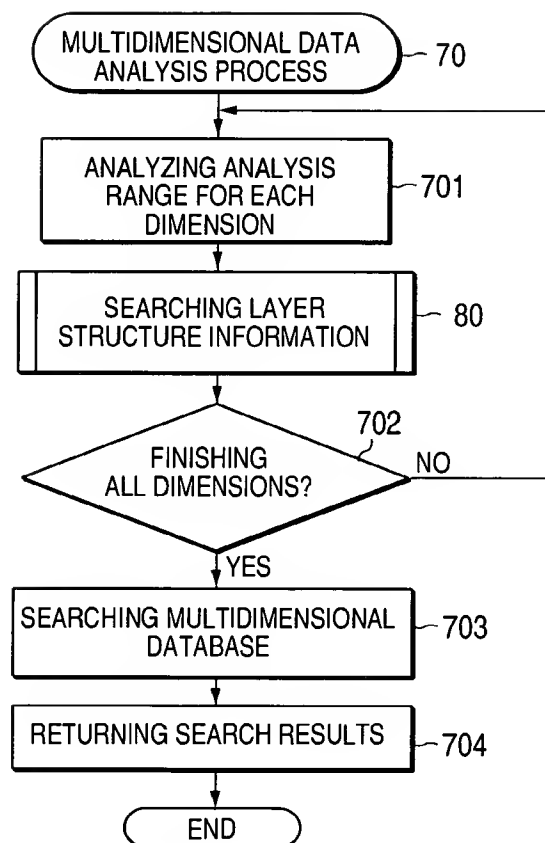


FIG.6

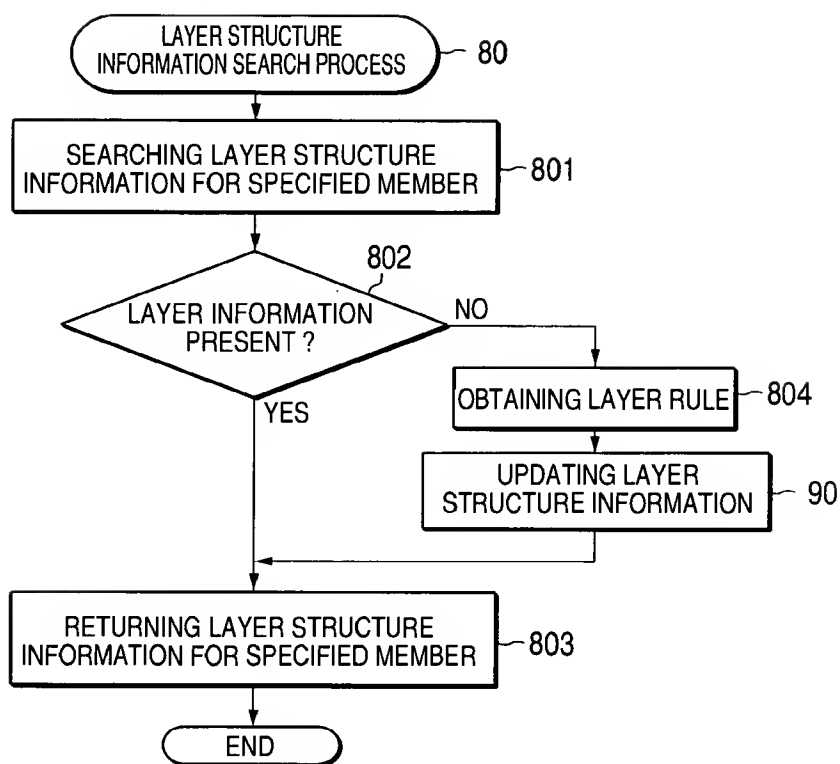


FIG.7

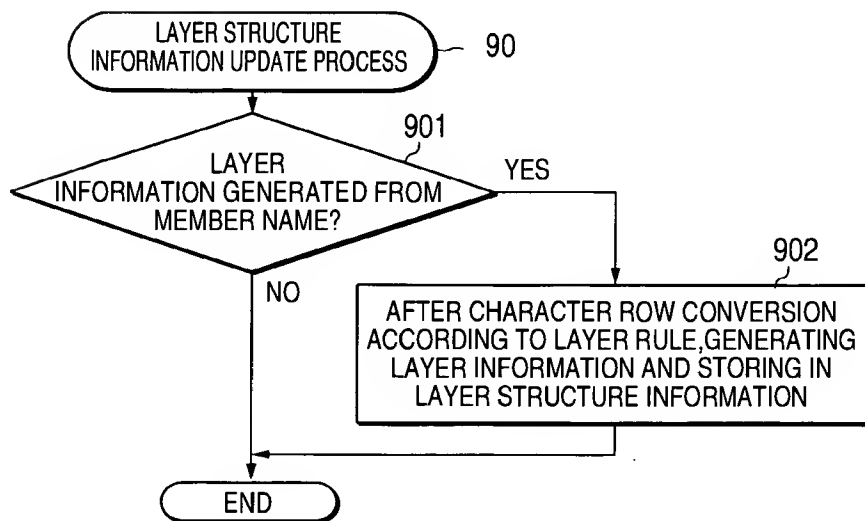




FIG.8

3110

TIME DIMENSIONAL LAYER RULE DEFINITION DATA

#LAYER RULE :
#AFTER CHARACTER ROW CONVERSION ON MEMBER, OBTAINING LAYER INFORMATION

FROM MEMBER NAME
LEVEL10= \$ MEMBER NAME
LEVEL11={
 S/¥ (.... \)0[123]/\1Q1/
 S/¥ (.... \)0[456]/\1Q2/
 S/¥ (.... \)0[789]/\1Q3/
 S/¥ (.... \)1[012]/\1Q4/
]
LEVEL12={
 S/ (.... \)../\1/
]



FIG.9

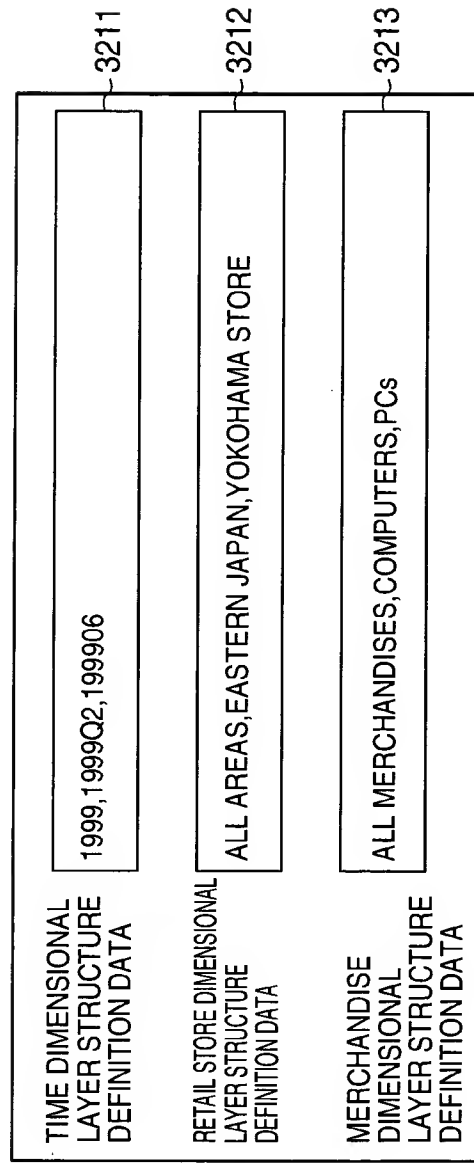




FIG.10

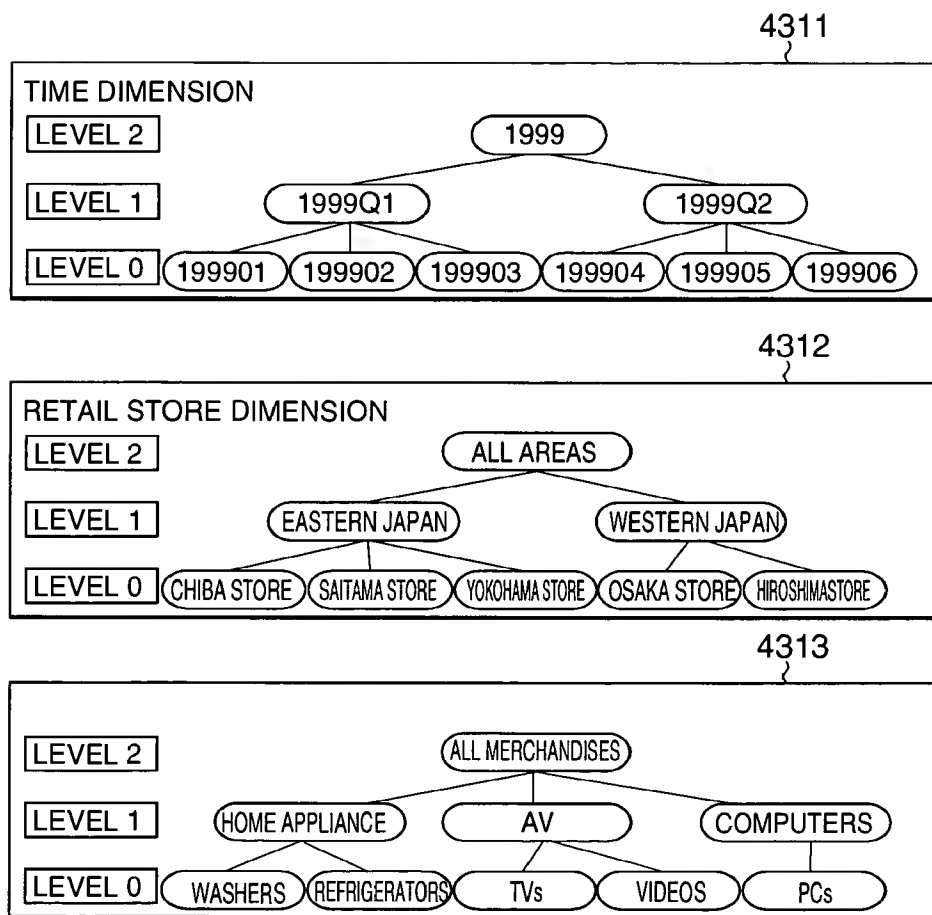




FIG.11

3120
} RETAIL STORE DIMENSIONAL LAYER RULE DEFINITION DATA

#LAYER RULE :
#OBTAINING LAYER INFORMATION FROM CSV FORMATTED FILE

FROM FILE,CSV FILE1
LEVEL0=COLUMN 3
LEVEL1=COLUMN 2
LEVEL2=COLUMN 1

FIG.12

3126
}

ALL AREAS,EASTERN JAPAN,CHIBA STORE
ALL AREAS,EASTERN JAPAN,SAITAMA STORE
ALL AREAS,EASTERN JAPAN,YOKOHAMA STORE
ALL AREAS,WESTERN JAPAN,OSAKA STORE
ALL AREAS,WESTERN JAPAN,HIROSHIMA STORE



FIG.13

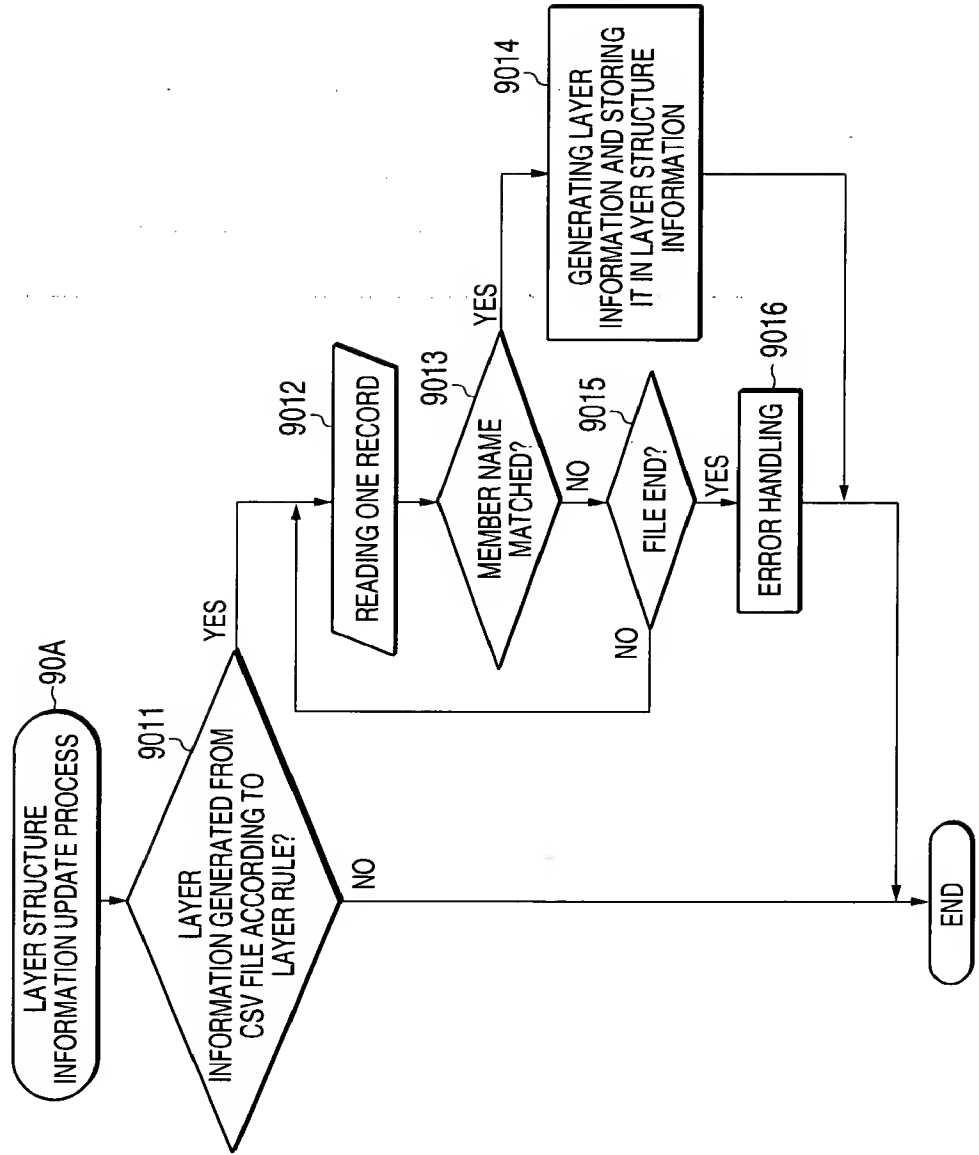




FIG.14

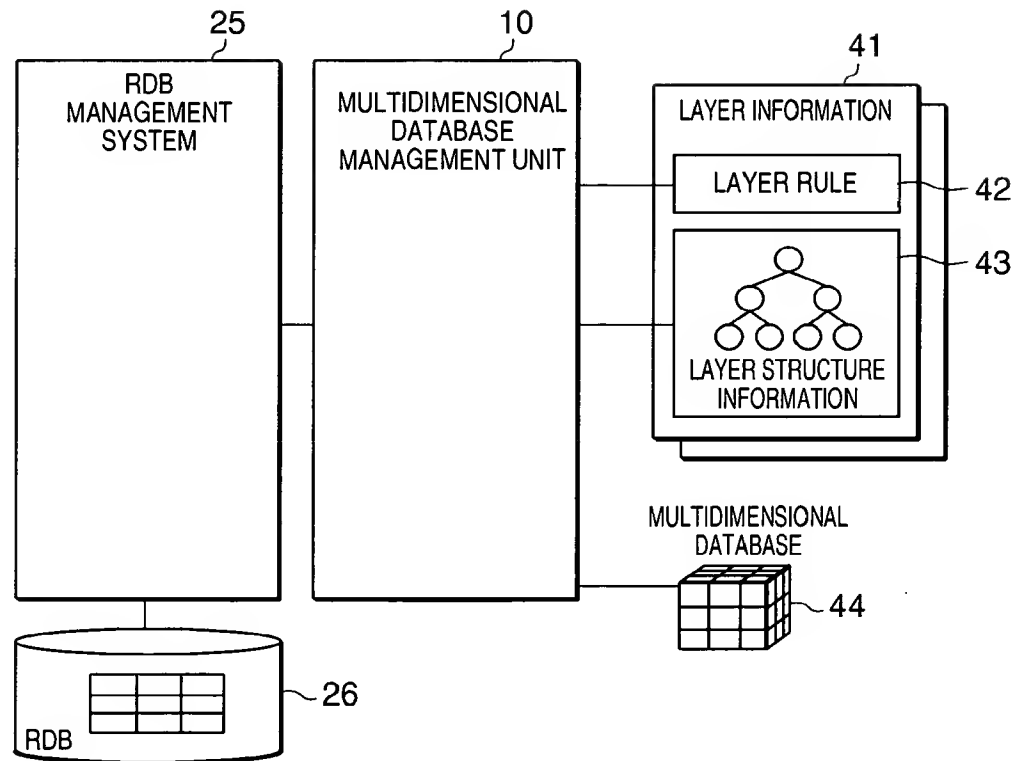




FIG.15

MERCHANDISE DIMENSIONAL LAYER RULE DEFINITION DATA		3130
#LAYER RULE : RDB TABLE 'PRODUCT MASTER TABLE'		
#OBTAINING FROM COL1,COL2		
FROM RDB TABLE 'PRODUCT MASTER TABLE'		
LEVEL 0=SMALL CLASSIFICATION		
LEVEL 1=LARGE CLASSIFICATION		
LEVEL 2="ALL MERCHANDISE"		

FIG.16

CONTENT OF RDB PRODUCT MASTER TABLE

LARGE CLASSIFICATION	SMALL CLASSIFICATION
HOME APPLIANCE	WASHERS
HOME APPLIANCE	REFRIGERATORS
AV	TVs
AV	VIDEOS
COMPUTERS	<u>PCs</u>



FIG.17

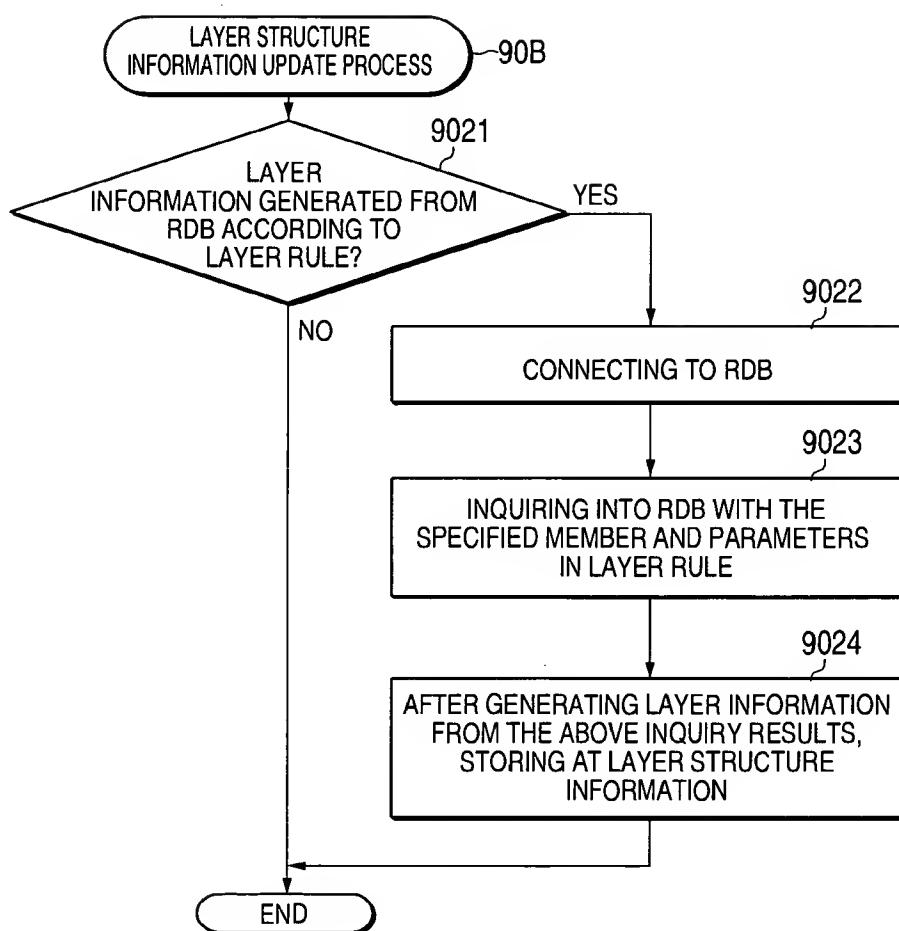




FIG.18

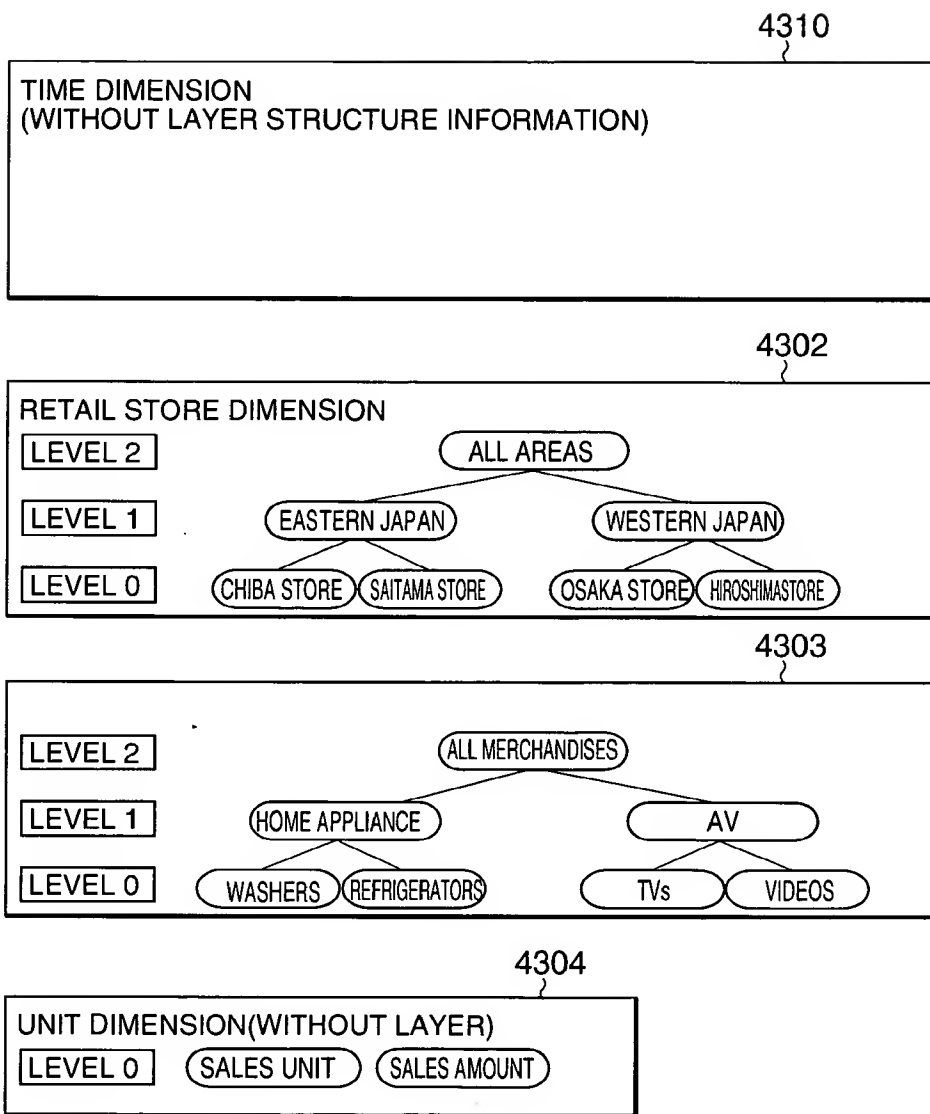




FIG.19

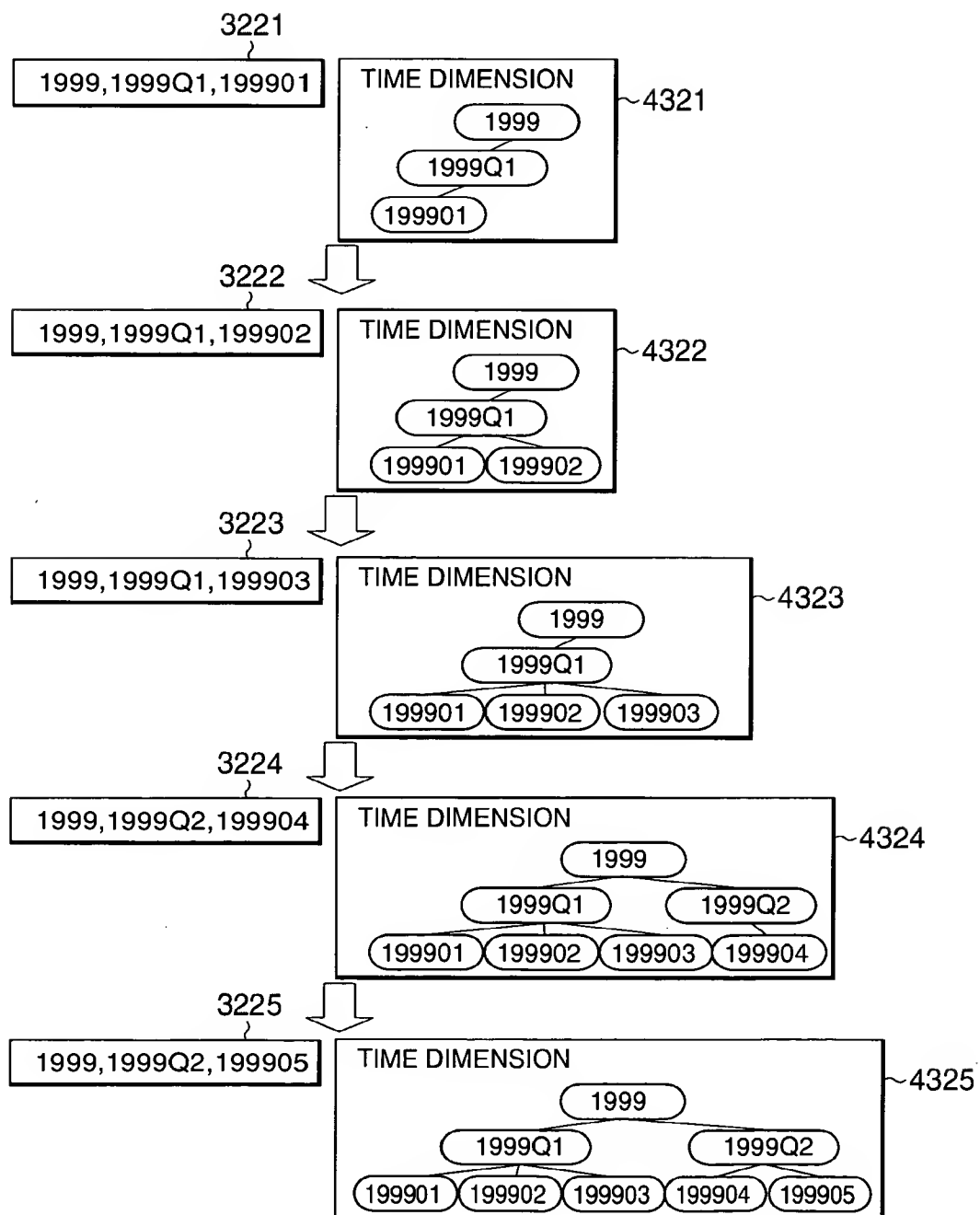




FIG.20 PRIOR ART

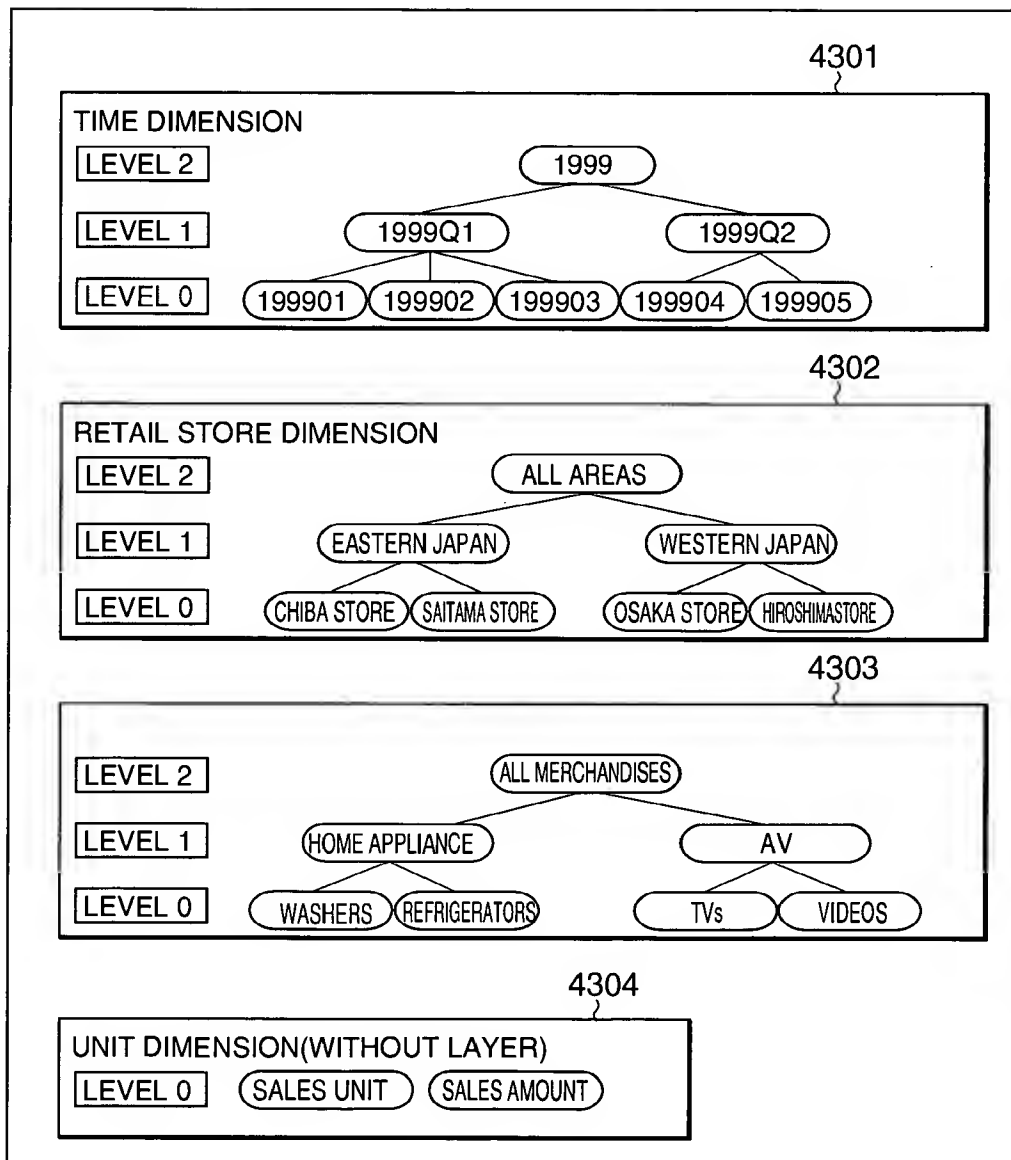




FIG.21 PRIOR ART

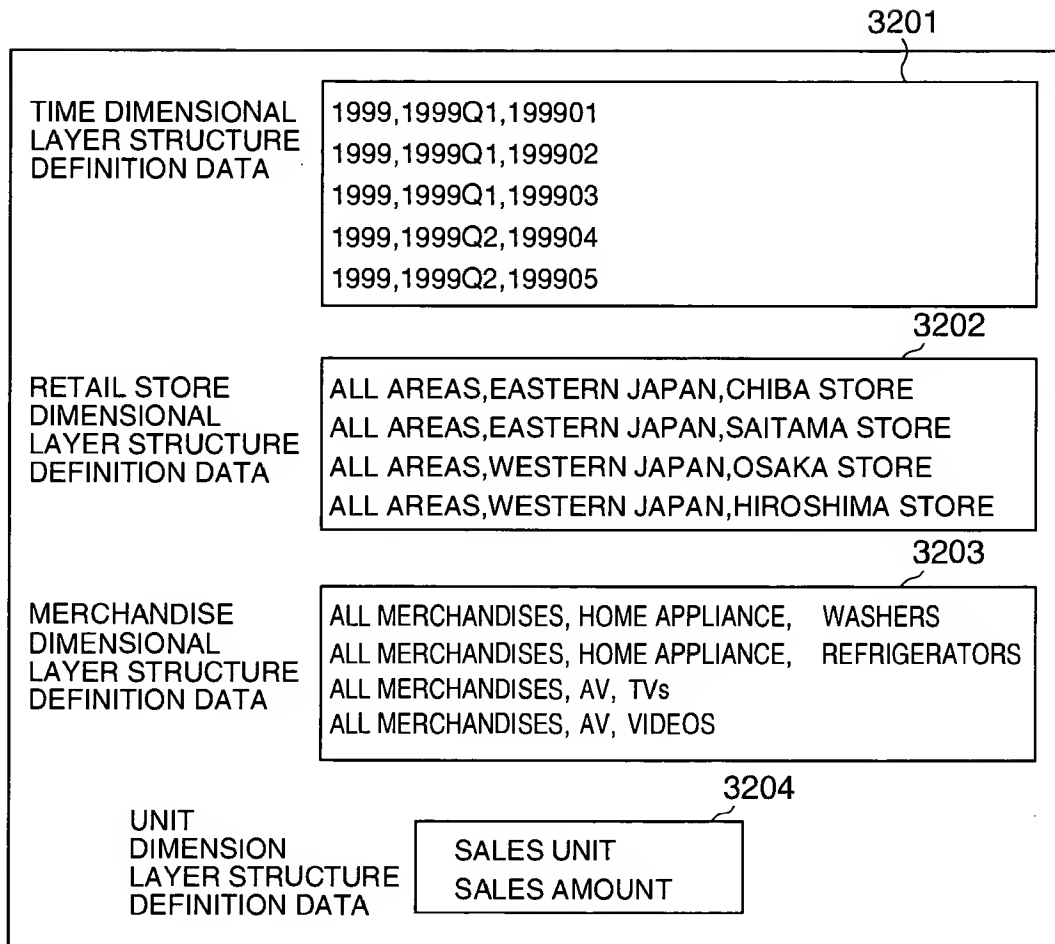




FIG.22 PRIOR ART

3301

199901, SAITAMA STORE,	TVs,	22, 2420000
199901, OSAKA STORE,	REFRIGERATORS,	15, 1350000
199902, HIROSHIMA STORE,	VIDEOS,	42, 2940000
199902, SAITAMA STORE,	WASHERS,	21, 1680000
199903, CHIBA STORE,	VIDEOS,	33, 2310000
199904, HIROSHIMA STORE,	REFRIGERATORS,	18, 1620000
199905, CHIBA STORE,	TVs,	45, 4950000
⋮		



FIG.23 PRIOR ART

MERCHANDISE DIMENSION		TVS						
UNIT DIMENSION		SALES AMOUNT						
TIME DIMENSION		1999						
RETAIL STORE DIMENSION	19999Q1		19999Q2					
	199901	199902	199903	199904	199905			
CHIBA STORE	110000	330000	770000	220000	110000	660000	1760000	3960000
SAITAMA STORE	990000	990000	660000	2640000	660000	990000	1650000	4290000
EASTERN JAPAN	2090000	1320000	1430000	4840000	1760000	1650000	3410000	8250000
OSAKA STORE	1100000	1100000	1100000	3300000	110000	990000	1100000	4400000
HIROSHIMA STORE	330000	550000	1100000	1980000	1100000	660000	1760000	3740000
WESTERN JAPAN	1430000	1650000	2200000	5280000	1210000	1650000	2880000	8140000
ALL AREAS	3520000	2970000	3630000	10120000	2970000	3300000	6270000	16390000



FIG.24 PRIOR ART

3311	3310
199906, CHIBA STORE,	REFRIGERATORS, 60, 5400000
199905, YOKOHAMA STORE,	REFRIGERATORS, 20, 1800000
199905, CHIBA STORE,	PCs, 30, 3600000
3312	3313

FIG.25 PRIOR ART

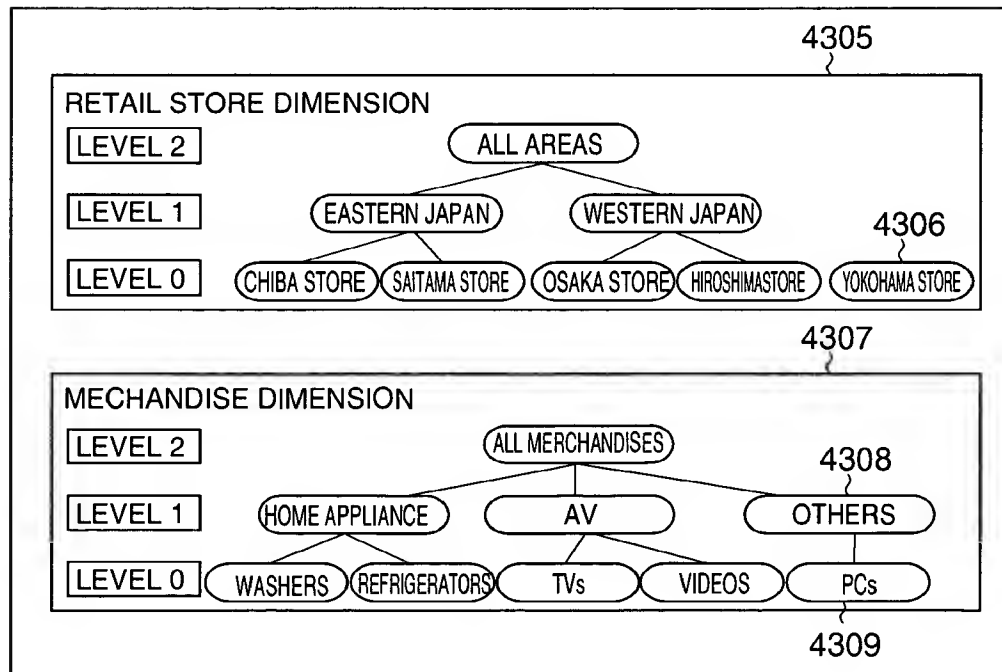




FIG.26

RETAIL STORE DIMENSION LAYER DEFINITION DATA

#MAIN LAYER RULE: #SEQUENTIALLY APPLYING SUBRULES APPLYING SUBRULE STORE_RULE1 APPLYING SUBRULE STORE_RULE2	3140
#SUB LAYER RULE :STORE_RULE1 #FROM CSV FILE,OBTAINING LAYER INFORMATION FROM FILE,CSV FILE1 LEVEL 0=COLUMN 3 LEVEL 1=COLUMN 2 LEVEL 2=COLUMN 1	3141
#SUB LAYER RULE:STORE_RULE 2: #AFTER CHARACTER ROW CONVERSION ON RETAIL STORE, OBTAINING LAYER INFORMATION FROM MEMBER NAME LEVEL 0=\$ MEMBER NAME LEVEL 1={ S/\(.JAPAN\). \$/\1/ } LEVEL 2={ ALL SALES TERRITORIES }	3142

FIG.27

3340

199901, EASTERN JAPAN SAPPORO STORE, TVS,17, 1870000
199902, HIROSHIMA STORE, VIDEOS, 42, 2940000
199903, EASTERN JAPAN SAPPORO STORE, REFRIGERATOR,15,1350000



FIG.28

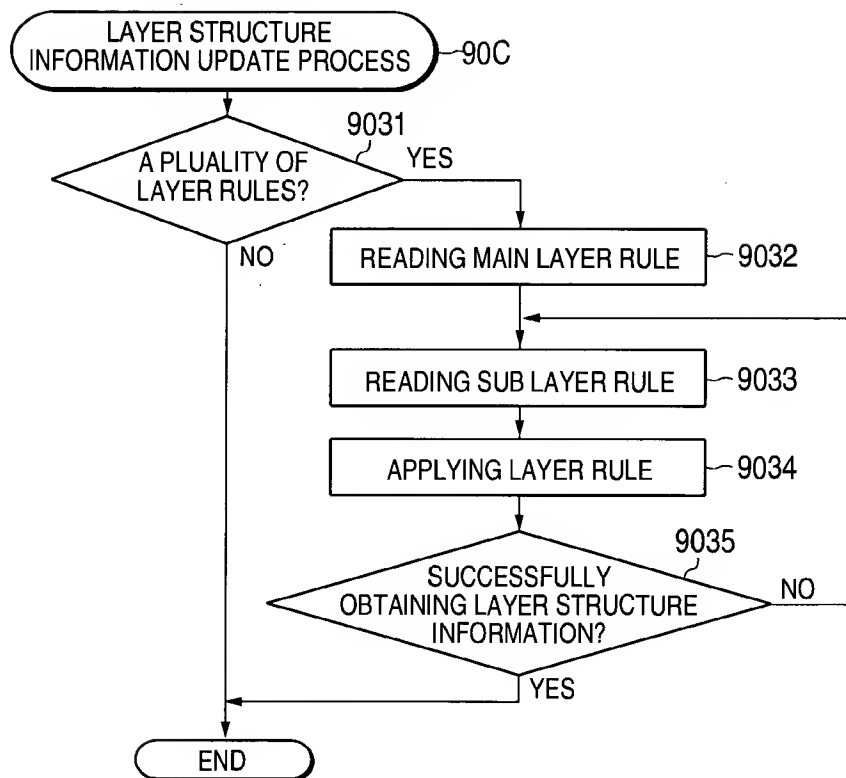


FIG.29

